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ОПТ \* 12 – 4 ТУ У 31.3-00214534-047:2005

Fiber optic overhead module-core cables, with polyethylene outer sheath

#### Mark formation:

OΠΤ-[a]-[b] [c]12(12x[e])-4

[a] central strength element

- · C steel
- · No marks dielectric

[b] quantity of optical fibers in the cable, possible values

72, 96, 120, 144, 156, 168, 180, 192

[c] type of optical fiber

- E single-mode (ITU-T G.652B)
- A single-mode with extended wavelength band (ITU-T G.652D, ITU-T G.657A1)
- C single-mode with non-zero shifted dispersion (ITU-T G.655)
- M multimode with core and sheath diameter ratio 50: 125 mm (ITU-T G.651)
- B multimode with core and sheath diameter ratio 62.5 : 125 mm (IEC 60793-2)

[e] quantity of optical fibers in the module:

• 1 ... 16

Manufacturing of cables in climate version F is possible

Manufacturing of cables with steel strength element is possible

Manufacturing of cables with armouring (aramid yarns and/or corrugated steel tape) is possible

Manufacturing of cables with steel or dielectric wire rope (glass fiber rod) is possible

Manufacturing of cables with flame-retardant polymer compound outer sheath is possible

It is possible to manufacture cables with gel-filled core or dry core (with water-blocking yarns and tapes)

It is possible to manufacture cables with a number of core elements up to and including 18

Order placing: sample of indication (corresponds to configuration pattern)

OΠΤ-120A12(12x10)-4 • TY Y 31.3-00214534-047:2005

### Cables are used for:

• suspensions and operation at supports of aerial contact-lines, urban electric transport and aerial power transmission lines under impact of wind, ice or their combination loads







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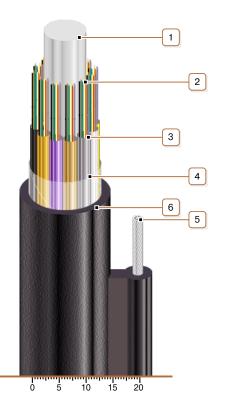
### **TECHNICAL SPECIFICATIONS**

units	12
units	72 192
MOhm ⋅ km	2000
kN	4
N/10 sm	3000
°C	-40 +60
°C	-60 +60
kg/km	210 265
mm	14 17
mm	22 25
mm	340
m, t	# 14: 2460 • 0.7
	units  MOhm • km  kN  N/10 sm  °C  °C  kg/km  mm  mm

#### Notes:

When ordering it is neccesary to agree the factory length of the product with the manufacturer

<sup>\*\*</sup> The external diameter may differ from the rated up to  $\pm$  10 %



## CONSTRUCTION

### 1. Central dielectric strength element

Note: Manufacturing of cables with steel strength element is possible

- 2. Optic fibers
- 3. Tube of fiber optic module
- 4. PET film winding
- 5. Extended strength member (rope)

Note: Manufacturing of cables with steel or dielectric wire rope (glass fiber rod) is possible

# 6. Polyethylene outer sheath

Note: Manufacturing of cables with flame-retardant polymer compound outer sheath is possible

#### Notes

- Optical module twisting is not illustrated.
- Manufacturing of cables with armouring (aramid yarns and/or corrugated steel tape) is possible
- It is possible to manufacture cables with gel-filled core or dry core (with water-blocking yarns and tapes)
- It is possible to manufacture cables with a number of core elements up to and including